

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231 www.ospto.gov

## NOTICE OF ALLOWANCE AND FEE(S) DUE

MORGAN & FIN 345 PARK AVENU	INEGAN, L.L.P. JE	EXAMINER CHOI, WILLIAM C			
NEW YORK, NY	10154	ART UNIT	CLASS-SUBCLASS		
			2873	359-689000	
			DATE MAILED: 12/10/2002	\	
APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/016.156	11/01/2001	Norihiro Nanba	1232-4783	4791	

APPLN. TYPE SMALL ENTITY ISSUE FEE PUBLICATION FEE TOTAL FEE(S) DUE DATE DUE

nonprovisional NO \$1280 \$300 \$1580 03/10/2003
THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT.

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.

☐ Applicant claims SMALL ENTITY status. See 37 CFR 1.27.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.



Complete and send this form, together with applicable fee(s), to: Mail Box ISSUE FEE

**Commissioner for Patents** Washington, D.C. 20231

(703)746-4000 <u>Fax</u>

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed where

appropriate. All further corrindicated unless corrected by maintenance fee notification	elów or directed otherwise s.	e in Block 1, by (a) sp	pecifying a new cor	respondence a	ddress;	and/or (b) indicating a sep	arate "FEE ADDRESS" fo
27123 75 MORGAN & FIN	INEGAN, L.L.P.	p with any corrections or use	Block 1)	Fee(s) Transi accompanying	mittal. g paper	mailing can only be used for This certificate cannot s. Each additional paper, have its own certificate of t	be used for any other such as an assignment or
345 PARK AVENU NEW YORK, NY				United States envelope addr	fy that Postal Sessed to	tificate of Mailing or Tran this Fee(s) Transmittal is Service with sufficient posta to the Box Issue Fee address PTO, on the date indicated b	being deposited with the ge for first class mail in an above, or being facsimile
			[				(Depositor's name
			<u> </u>				(Signature
			Į				(Date
APPLICATION NO.	FILING DATE	FIR	ST NAMED INVENT	OR		ATTORNEY DOCKET NO.	CONFIRMATION NO.
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APPLN. TYPE nonprovisional	SMALL ENTITY NO	ISSUE FEE \$1280		CATION FEE		TOTAL FEE(S) DUE \$1580	DATE DUE 03/10/2003
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EXAMIN CHOI, WILI		ART UNIT	359-689000				
1. Change of correspondent CFR 1,363).	ce address or indication of	'Fee Address" (37	2. For printing of the names of up				
☐ Change of corresponde Address form PTO SB:12	nce address (or Change of 2) attached.	Correspondence	or agents OR, a single firm (hav attorney or agen	ing as a men	nber a	registered	
"Fee Address" indication PTO/SB/47; Rev 03-02 of Number is required.	on (or "Fee Address" Indica or more recent) attached. Us	tion form e of a Customer	registered patent	attorneys or a	gents. I		
3. ASSIGNEE NAME AND			.*	* * .			
PLEASE NOTE: Unless at been previously submitted (A) NAME OF ASSIGNED	to the USPTO or is being s	ibmitted under separat	vill appear on the page cover. Completion ESIDENCE: (CITY	of this form is	NOT	gnee data is only appropria substitute for filing an assi NTRY)	e when an assignment has gnment.
Please check the appropriate	assignee category or category	ories (will not be printe	ed on the patent)	<b>⊒</b> individua	ıl 🗀 ca	orporation or other private g	roup entity 🖫 government
4a. The following fee(s) are o	enclosed:	4b. Pa	yment of Fee(s):				1 7 0
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☐ Publication Fee			ment by credit card Commissioner is b			tached. arge the required fee(s), or o	redit any overnavment, to
Advance Order - # of Co	<u> </u>	Depos	sit Account Number		(e	nclose an extra copy of this	form).
Commissioner for Patents is	requested to apply the Issue	Fee and Publication I	ee (if any) or to re-	apply any prev	iously p	oaid issue fee to the applicat	ion identified above.
(Authorized Signature)		(Date)					
NOTE: The Issue Fee and other than the applicant; a interest as shown by the rec	Publication Fee (if require registered attorney or agords of the United States P	red) will not be accept ent; or the assignee of atent and Trademark C	or other party in Office.				
This collection of informat obtain or retain a benefit happlication. Confidentiality estimated to take 12 minute completed application form case. Any comments on suggestions for reducing the Patent and Trademark Offino T	by the public which is to the is governed by 35 U.S.C. as to complete, including go note the USPTO. Time with amount of time you have a burden, should be sent.	ile (and by the USPT 122 and 37 CFR 1.14. athering, preparing, ar III vary depending up require to complete to the Chief Information	O to process) and This collection is and submitting the on the individual this form and or ion Officer L.S.				

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27123	7590	12 10 2002		EXAMIN	ER
MORGAN &		AN, L.L.P.		CHOI, WILI	LIAM C
345 PARK AV NEW YORK, N				ART UNIT	PAPER NUMBER
				2873	
				DATE MAILED: 12/10/2002	

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The patent term adjustment to date is 0 days. If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the term adjustment will be 0 days.

If a continued prosecution application (CPA) was filed in the above-identified application, the filing date that determines patent term adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system. (http://pair.uspto.gov)

Any questions regarding the patent term extension or adjustment determination should be directed to the Office of Patent Legal Administration at (703)305-1383.



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# Notice of Fee Increase on January 1, 2003

If a reply to a "Notice of Allowance and Fee(s) Due" is filed in the Office on or after January 1, 2003, then the amount due will be higher than that set forth in the "Notice of Allowance and Fee(s) Due" since there will be an increase in fees effective on January 1, 2003. See Revision of Patent and Trademark Fees for Fiscal Year 2003; Final Rule, 67 Fed. Reg. 70847, 70849 (November 27, 2002).

The current fee schedule is accessible from: http://www.uspto.gov/main/howtofees.htm.

If the issue fee paid is the amount shown on the "Notice of Allowance and Fee(s) Due," but not the correct amount in view of the fee increase, a "Notice to Pay Balance of Issue Fee" will be mailed to applicant. In order to avoid processing delays associated with mailing of a "Notice to Pay Balance of Issue Fee," if the response to the Notice of Allowance and Fee(s) due form is to be filed on or after January 1, 2003 (or mailed with a certificate of mailing on or after January 1, 2003), the issue fee paid should be the fee that is required at the time the fee is paid. If the issue fee was previously paid, and the response to the "Notice of Allowance and Fee(s) Due" includes a request to apply a previously-paid issue fee to the issue fee now due, then the difference between the issue fee amount at the time the response is filed and the previously paid issue fee should be paid. See Manual of Patent Examining Procedure, Section 1308.01 (Eighth Edition, August 2001).

Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

	Application N	No.	Applicant(s)	
	10/016,156		NANBA, NORIHIRO	<b>,</b>
Notice of Allowability	Examiner		Art Unit	·-
	William C. Ch	oi	2873	
The MAILING DATE of this communication appeal all claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF the Office or upon petition by the applicant. See 37 CFR 1.313	OR REMAINS or other approp IGHTS. This ap	) CLOSED in this apportance communication oplication is subject to	olication. If not include will be mailed in due	ed course. <b>THIS</b>
<ol> <li>This communication is responsive to Amendment A filed of the allowed claim(s) is/are 1-25.</li> <li>The allowed claim(s) is/are 1-25.</li> <li>The drawings filed on 01 November 2001 are accepted by the Acknowledgment is made of a claim for foreign priority under a)</li></ol>	the Examiner. der 35 U.S.C. § e been received e been received	I. Lin Application No		ation from the
International Bureau (PCT Rule 17.2(a)).  * Certified copies not received:  5.  Acknowledgment is made of a claim for domestic priority u  (a)  The translation of the foreign language provisional a  6.  Acknowledgment is made of a claim for domestic priority u  Applicant has THREE MONTHS FROM THE "MAILING DATE" o	application has under 35 U.S.C.	been received. §§ 120 and/or 121. cation to file a reply or	omplying with the requ	uirements noted
below. Failure to timely comply will result in ABANDONMENT of  7. A SUBSTITUTE OATH OR DECLARATION must be subn INFORMAL PATENT APPLICATION (PTO-152) which gives reas	nitted. Note the	attached EXAMINER	R'S AMENDMENT or	
8. CORRECTED DRAWINGS must be submitted.  (a) including changes required by the Notice of Draftsper  1) hereto or 2) to Paper No.  (b) including changes required by the proposed drawing  (c) including changes required by the attached Examiner	correction filed	, which has b	een approved by the	
Identifying indicia such as the application number (see 37 CFR of each sheet. The drawings should be filed as a separate pape	1.84(c)) should b r with a transmit	oe written on the drawi ttal letter addressed to	ngs in the top margin ( the Official Draftspers	not the back) on.
9. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT FOR	osit of BIOLO( THE DEPOSIT	GICAL MATERIAL I OF BIOLOGICAL MA	must be submitted. TERIAL.	Note the
Attachment(s)				
<ul> <li>1∑ Notice of References Cited (PTO-892)</li> <li>3☐ Notice of Draftperson's Patent Drawing Review (PTO-948)</li> <li>5∑ Information Disclosure Statements (PTO-1449). Paper No. 9</li> <li>7☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material</li> </ul>	,	4 Interview Summ 6 Examiner's Ame 8 Examiner's Stat 9 Other  Lipps  Lipps  Aut Fxamin	al Patent Application pary (PTO-413), Pape <del>andment</del> /Comment ement of Reasons for	r No



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Application/Control Number: 10/016,156

Art Unit: 2873

## **EXAMINER'S COMMENT**

Applicant is informed that examiner made a correction to the misspelled word "beign" in claim 22 on page 7, line 7 of Amendment A, filed on October 3, 2002. The word was replaced with "being".

Allowed Claims: 1-25.

## **REASONS FOR ALLOWANCE**

The following is an examiner's statement of reasons for allowance: none of the prior art either alone or in combination disclose or teach of the claimed combination of limitations to warrant a rejection under 35 USC 102 or 103.

Specifically, with respect to independent claim 1, none of the prior art alone or in combination disclose or teach of a zoom lens as claimed specifically wherein, during zooming from a wide angle to telephoto end, a space between first and second lens units decreases and a space between second and third lens units increases and the claimed condition regarding number of lens elements per lens unit is satisfied.

Specifically, with respect to independent claim 9, none of the prior art alone or in combination disclose or teach of a zoom lens as claimed specifically wherein, during zooming from a wide angle to telephoto end, a space between first and second lens units and second and third lens units decreases and increases respectively, the claimed condition regarding number of lens elements per lens unit is satisfied and the third lens

Page 2

-Application/Control Number: 10/016,156

Art Unit: 2873

unit moves along a convex locus to the image side in zooming from the wide angle to the telephoto end.

Specifically, with respect to independent claim 21, none of the prior art alone or in combination disclose or teach of a zoom lens as claimed specifically wherein, during zooming from a wide angle to telephoto end, a space between first and second lens units and second and third lens units decreases and increases respectively, the claimed condition regarding number of lens elements per lens unit is satisfied with the second lens unit consisting of 3 lens elements.

Specifically, with respect to independent claim 22, none of the prior art alone or in combination disclose or teach of a zoom lens as claimed specifically wherein, during zooming from a wide angle to telephoto end, a space between first and second lens units and second and third lens units decreases and increases respectively, the claimed condition regarding number of lens elements per lens unit is satisfied and the thickness of the positive lens element constituting the cemented lens of the second lens unit is greater than a thickness of the negative lens element.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Application/Control Number: 10/016,156

Art Unit: 2873

## CITATION OF RELEVANT PRIOR ART

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Nishio (U.S. 5,523,888A) is being cited herein to show a zoom lens comprising many of the claimed structural limitations of that of the claimed invention with the exception of the claimed condition regarding the number of lens elements per lens unit.

#### CONCLUSION

Any inquiry concerning this communication or earlier communications from the examiner should be directed to William C. Choi whose telephone number is (703) 305-3100. The examiner can normally be reached on Monday-Friday from about 9:00 am to 6 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Georgia Y. Epps can be reached on (703) 308-4883. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 305-3431 for regular communications and (703) 305-3432 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.